

Special Issue

Numerical Methods for Differential and Integral Equations

Message from the Guest Editor

This Special Issue aims to focus on advancing the theory, development, and application of numerical techniques for solving differential and integral equations in various scientific and engineering disciplines. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Innovative methodologies.
- Theoretical developments, including convergence, stability, and error analyses of newly proposed numerical methods.
- Applications in science and engineering.
- Interdisciplinary approaches, such as the following:
 - We especially encourage contributions that integrate machine learning and numerical methods to solve equations in innovative ways.
 - We also seek to promote research on hybrid methods that combine analytical solutions with numerical approximations.
- High-performance computing.
- Emerging trends, such as digital twins, artificial intelligence, and real-time simulation.

I look forward to receiving your contributions.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).